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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/281,852 | 03/31/1999 | DARYL CARVIS CROMER | RP9-99-048 | 7708 |

7590

08/13/2003

BRACEWELL & PATTERSON, L.L.P.
INTELLECTUAL PROPERTY LAW
P.O. BOX 969
AUSTIN,, TX 78767-0969

EXAMINER

LEE, CHI CHUNG

ART UNIT

PAPER NUMBER

2131

DATE MAILED: 08/13/2003

10

Please find below and/or attached an Office communication concerning this application or proceeding.

2

Office Action Summary

Application No.

09/281,852

Applicant(s)

CROMER ET AL.

Examiner

Chi-Chung E Lee

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 3/31/1999.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) 8,9 and 17-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 10-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☒ The proposed drawing correction filed on 24 January 2003 is: a) ☒ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 10-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Nielsen (US 6,006,333)** and further in view of **Pond et al (US 4,864,616)** and **Schneier**.

As per claims 10, 11, Nielsen discloses a data processing system (i.e. client system 10, see figure 1B) capable of protecting the security of a cookie (i.e. user ID and password, see figure 2) stored within said data processing system. The data processing system comprising:

a) means for utilizing the master password as the encryption key to encrypt said cookie (i.e. user ID and password).

b) a non-protected storage device (i.e. fixed disk 34, see figure 1A) for storing encrypted user ID and password database [see column 3 lines 61-67].

c) means for utilizing the master password as a key to decrypt the cookie (i.e. needed password and user ID) based on a request for authentication is received [see column 4 lines 1-8].

d) means for sending decrypted cookie (i.e. user ID and password) to the web browser [see column 4 lines 43-61].

Nielsen does not expressly disclose a protected storage device for storing an encryption key pair.

Pond discloses the secure memory of the PC's memory (i.e. a protected storage device) for storing MID key and PID key (i.e. an encryption key pair, see column 3 lines 19-35 and figure 1]. Pond discloses the data ciphering processor (i.e. encryption/decryption means) is using key streams corresponding to MID key and PID key to encrypt clear text and to decrypt encoded text [see column 5 lines 60-66]. Pond also discloses the encrypted sensitive files stored in the data storage medium (i.e. hard disk, a non-protected storage device) is protected even if it is physically stolen [see column 4 line 67-column 5 line 3].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to protect the cookie (i.e. authentication information, user ID and password) using the MID key and PID key (i.e. an encryption key pair) stored in a secure portion of the PC's memory disclosed by Pond to substitute the master password key disclosed in Nielsen.

One of ordinary skill in the art would have been motivated to store such valuable information (i.e. encryption/decryption keys) in the secure memory of the PC in order to prevent lost/misplace of master password by the user.

The combination of Nielsen and Pond does not expressly disclose to use public-key cryptography (the encrypt key called public key is different from the decryption key which is called private key) to encrypt/decrypt the sensitive files (i.e. cookie).

Schneier discloses that the public-key cryptography and symmetric cryptography are two different sorts of algorithms. Schneier discloses the public-key algorithm has significant security benefits and could be limited to exchanging key for conventional symmetric cryptography system, see page 216.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use public-key cryptography (two different keys) instead of symmetrical cryptography (one key) to protect the cookie (i.e. authentication information) because the particular encryption scheme and accompanying decryption scheme used are the same disclosed by Nielsen [see column 4 lines 9-25].

As per claims 12-14, Pond discloses the key is a bit pattern, which is used in the encryption process and which is stored in the secure portion of the PC's memory, see column 5 lines 35-43.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to protect the cookie (i.e. authentication information, user ID and password) using the MID key and PID key (i.e. encryption key pair) stored in a secure portion of the PC's memory disclosed by Pond to substitute the master password key disclosed in Nielsen.

One of ordinary skill in the art would have been motivated to store such valuable information (i.e. encryption/decryption keys) in the secure memory of the PC in order to prevent the situation that the user does not remember the master password.

The examiner asserts that this disclosure clearly suggests the key streams in the secure memory of PC only can be accessed by data ciphering processor (i.e. encryption engine), see column 5 lines 4-59.

As per claim 15-16, Nielsen discloses the browser program will generally respond to an authentication request by decrypting the password and user ID (i.e. cookie) and forwarding them to that remote site (i.e. a remote server, see column 2 lines 12-27 and column 4 lines 49-56).

As per claims 1-7, the claimed steps corresponds to the functions of the elements of the apparatus claims 10-16, which has been rejected above, and thus rejected with the same reason applied thereto.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chi-Chung E Lee whose telephone number is 703-306-4153. The examiner can normally be reached on 8 am - 5 pm, Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 703-305-9648. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Application/Control Number: 09/281,852

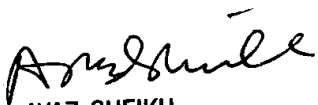
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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

C. I.

Chi-Chung Lee
August 11, 2003


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100